

Levan Hunlers & Wegham Richardson 85 1127 Profile plan

not covert.

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S.S. ACRAKIA.

NEWCASTLE ON TYNE.

Report No. 78286.

Laydo Registe Foundation

20-6.19.

---TWIN SCREW PASSENGER & CARGO STEAMER Nº 498.

-PROFILE.

TO CLASS 100 A.I. LLOYDS SHELTER DECK SPECIAL SURVEY.

-- DIMENSIONS:- 519'-0" B. P. × 65'-0" MLD × 43'-0" MLD TO "C" SHELTER DECK.-

- SCALE 8 INCH = ONE FOOT.

FRAMES IN DOUBLE BOTTOM 32 x 32 x .48

36" SIDE COMMINGS .44



C DECK BEAMS 8x3x 3x 44 WEB \$.50 FLANGES, CHANNELS ON EVERY FRAME, KNEES 29 x 50, [HORIZONTAL SHELF PLATES 29 x 50 IN LIEU OF KNEES IN WAY OF SALOONS.] D BECK BEAMS 8 x 3 x 3 x 4 4 WEB & . 50 FLANGES CHANNELS ON EVERY FRAME, KNEES 29 x 50. E & F DECKS BEAMS 9'x 3/2 x 3/2 x 375 WEB & 500 FLANGES. CHANNELS ON EVERY FRAME, KNEES 31"x .50. HATCH END BEAMS ON ALL DECKS EXCEPT E & F DECKS TO BE SAME SIZE AS BEAMS OF THEIR RESPECTIVE DECKS SEE DECK PLAN. HATCH END BEAMS ON E & F DECKS 12" x 4" x 1" x 152 CHANNELS. KNEES 31" x 150 BEAMS TO TUNNEL FLAT 9 x 32 x 375 WEB & SOO FLANGES. CHANNELS ON EVERY FRAME, KNEES 31 x 50. TO BE CONSIDERED IN CONJUNCTION WITH DECK PLANS SEE SEPARATE SUBMISSION FOR ADDITIONAL STRENGTHENING OF BOTTOM FORWARD & PANTING ARRANGEMENTS FORWARD. SEE SEPARATE SUBMISSION FOR CENTRE LINE LONGITUDINAL BULKHDS. " " DETAILS OF OIL BUNKERS. TUNNEL & WATER TANKS. BOSSING ARRANGEMENTS. SCANTLINGS & POBITIONOF WEB FRAMES LAS SHEWN ON DECK PLANS. BEAMS TO FLYING BRIDGE 6'x 3'2 x 40 SPACED 5.4" APART # GAPTAINS BRIDGE 6 x 3 2 x 40 # 32" APART KNEES 15" x .40 HATCH SIDE COAMINGS TO BE FLANGED UNDER BEAMS EXCEPT IN WAY OF TRUNK PLATING & TO BE SUFFICIENTLY DEEP TO TAKE ENDS OF HATCH WEBS. SIDE COAMINGS: 44 30 ABOVE WOOD DECK. SIDE COAMINGS 44. ANGLE STIFFENERS 4x3x 30 END COAMINGS 44 Nº 1 HATCH al W. T. GANGWAY TRUNK PLATING 28 ANGLE STIFFES 4'x 3'x 30 E DECK TO BE ARRANGED TO SUIT UPTAKES & TO BE RESERVE FEED WATER

Sod R.

9-

-19 A.M.



see amended plan for Bld Shiffeners

BOAT DECK BEAMS 52 x 3 x 36 B.A. FOR 20 FT. SPAN SPACED TO SUIT BOAT DAVITS \$ 52 x 3 x 36 ANGLES ON EVERY FRAME ELSEWHERE KNEES 15 x 40.

A DECK BEAMS 7/2 x 3" x 42 B.A. ON EVERY FRAME IN WAY OF BRIDGE SIDE PLATING. KNEES 25" x 46 & 5/2 x 3 x 36 B.A. ON EVERY FRAME CLEAR OF SIDE PLATING & KNEES 15 x 40.

Swan & Hunter.

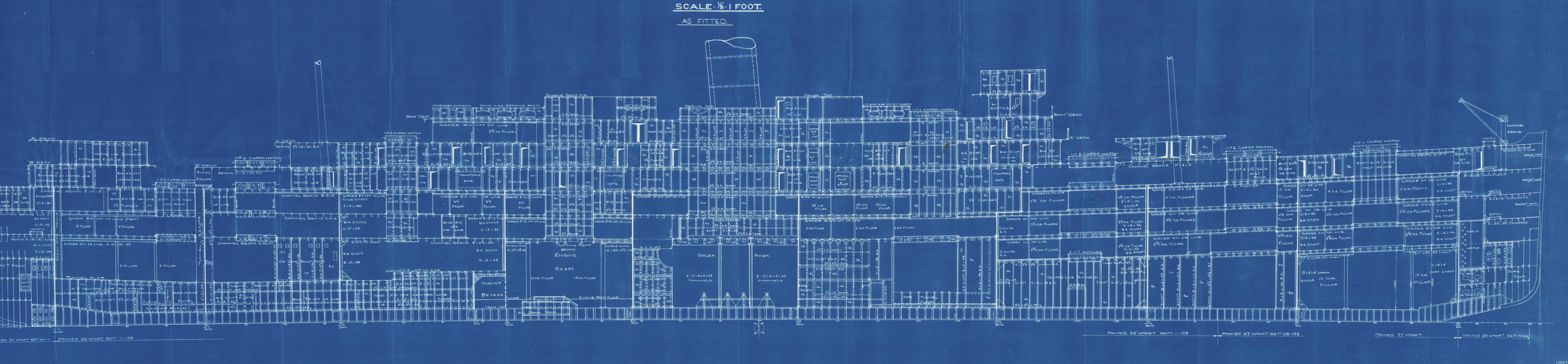
No. 1127.

S.S. "aurania"

Profile (as built)

W29410125 egister

T. S.S. "AURANIA". CONSTRUCTIONAL PROFILE.



Character to the second

GIRDER ON CRLINE . 2-10 32 x32"

FRAMES 24 APART BET AR-II FRAMES 32 APART BET 11-158.

9 PILLAR 9 PILLAR

S.H.W.R 55 ho 1124

Vickers L?

mo. 498.

Deck Plans.

(Boot. A.B&C)



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S.S. AURAINIA NEWCASTAL ON TYNE, Report No. 44286

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W294-0126

T.S. S. Nº 498 (YICKERS) ALSO FOR BEAMS 52 x 3x 36 ANGLES ARMSTRONG WHIT WORTHS Nº 970 - 1 BEAMS 52 x 3 x · 36 BULB ANGLES. HAWTHORN LESLIES Nº 500 DEAMS 52x 3x 36 ANGLES (followed)

WATERWAY BX3x3x. AO CHANNEL.

STRINGER 30x. 30 JOHN BROWN & CO Nº 495. TWIN SCREW PASS. & CARGO STEAMER SWAN HUNTER & WIGHAM RICHARDSONS Nº 1127 -- No. 498.--& APPROX POSITION OF BOAT PAVITS. DECK HOUSE UNGER.

PECK PLATING . 26 SHEET No. 1. BOAT DECK TIMENSIONS: - 519-0 B.P. x 65-0 MLP. X 43.0 MLP. TO C SHELTER PECK. SCALE 1/8 = 1 FOOT. CLASS 100 A.I. LLOYDS. SHELTER DK. SPECIAL SURVEY. CARTAINS QUARTERS. A DK. BEAMS CLEAR OF SIDE PLATING 52 x 3x. 36. B. ANGLES KNEES 15 x, 40 - END OF BRIDGE SIDE PLATING STR. Angle 32, 32, 46\$ A PECK BEAMS 72 x 3 x 42 B. ANGLES ON EVERY FRANKE 12 WAJERWAY STR ANGLE 32 x 32 x . A6 + KNEES 25 x . 46 51RMGER 49 x · 30 tw. ANGLE 3 x 22 x · 40 PECK PLATING 30 IN WAY OF SIDE FLATING SEAMS SINGLE RIVETED, BUTTS POUBLE. 2" CLASS PROMENADE.

WOOD DK. 5 x 2 % PINE WITH TEAK MARGINS

Webs to suit accommodation object about 30 feet about. TE PLATES 18 x . 30 LAPOERWAY

A BUND UNDER

DX. LATING . 30 A DECK 2" CLASS LOUNGE & SMOKE ROOM 27 CLASS WRITING A DECK OFFICERS 12 MAGNESITE IN SITE HOUSES KACCOM BHD. UNDER & PRANING ROOM PECK HOUSE 40 43 46 49 52 55 58 61 64 67 70 73 D'DECK BEAMS 8x3x3 x 375 WEB CHANNELS ON EVERY FRAME.

3/5 LENGTH

3/2 FRAME STACING SEPARATE SUBMISSION FOR DECK GIRDERS & PILLARS DECK PLATING INCREASED LOCALLY UNDER WINCHES CURTAIN PLATE END OF BRIDGE SIDE PLATING BEAMS CLEAR OF SIDE PLATING GX 3x 40 BULB ANGLES B DECK NOTE: - POSITIONS OF PARTIAL BHS & WEB FRAMES TO BE TAKEN FROM. 32 FRAME SPACING 27 FRAME SPACING 27 RAME SPACING 24 FRAME SPACING C PECK BEAMS 8.3.3. { . 44 WEB } CHANNELS ON EVERY FRAME GEN. ARRANGEMENT. SCANTLINGS AS ON SHEET NO. 2. PORT ONLY STRINGER INCREASED 20 WEB 5 STAR! ONLY STRINGER INCREASED 20 SWEB IN WAY OF SALOONS, SHELF PLATES 29"x 50 · NOTE: - STRAKE OF PLATING ALONGSIDE OPENINGS TO BE INCREASED AS INDICATED PLATING OVER GALLEY RANGES TO BE INCREASED TO. 24 FRAME SPACING 32 FRAME SPACING & LARGE POUBLE RIVETED CORNER COAMING ANGLES FIFTED IN LIEU OF POUBLINGS. 32 FRAME SPACING 27 FRAME SPACING 27 FRAME SPACING & 24 FRAME SPACING

415 S.H.W.R. 58 ho 1124 Vicken L? no.498. Deck Plans. (D. E. + F) 4- JUN 1919 SS. ALIRANIA

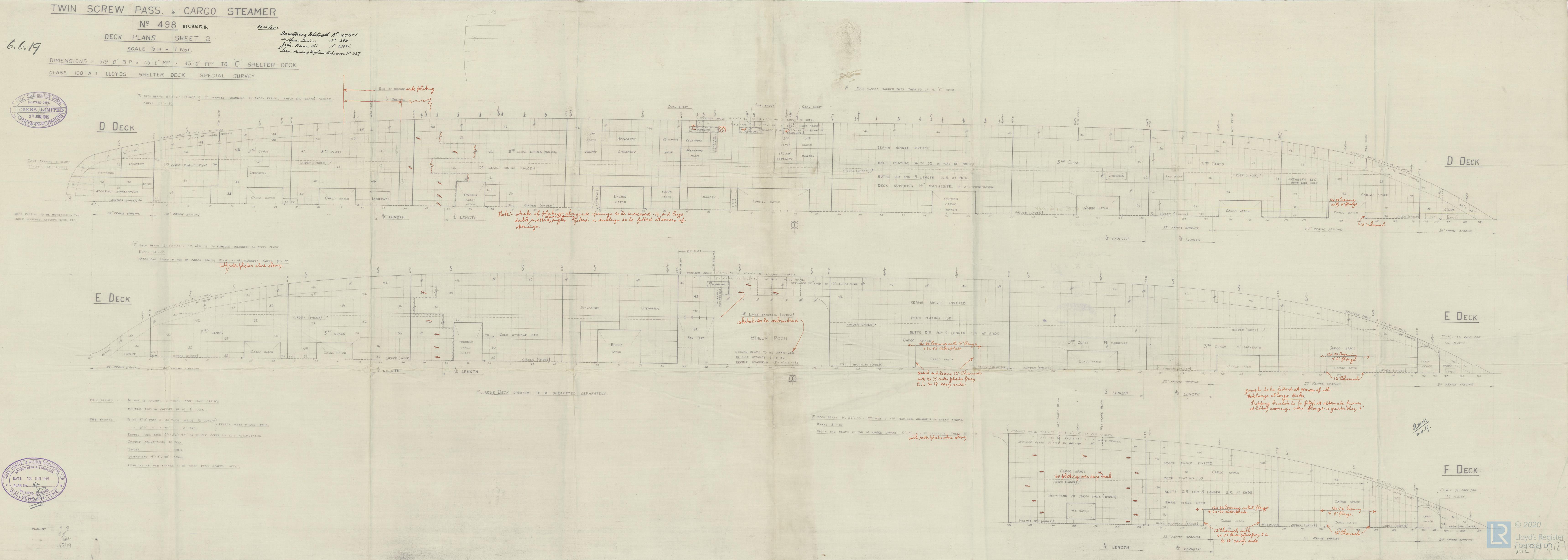
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NEWCACTLE ON TYNE.
Report No. 78286.

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Lloyd's Register Foundation



Swan Hunter & Aughani Richardson La 58 1124 (Curpert le) Greatup Lection (See Plan as built) Supg Victors 498 S.S. AURANIA. NEWCASTLE ON TYNE. Report No. 78286. hos Bags W294-01230

TWIN SCREW PASSENGER & CARGO STEAMER.

20.6.19.

ON ACCOUNT OF

THICKER KEEL &

CENTRE KEELSON.

NO BOSOM PIECES

BUTTS OF C.K. TOP

& BOTTOM ANGLES.

To . 58 AT ENDS.

FRAT KEEL

X KEEL & CENTRE KEELSON

PHATES ALREADY IN STOCK

FROM OUR Nº 493 TO BE USED.

* 55" x 1-26 FOR 5 L.

To . 96 AT ENDS.

REVERSE FRAMES IN ENG. & BOILER SPACES AS PER. RULE.

62 IN BOILER SPACE. 3

CENTRE STRAKE + 08 UNDER CARGO HATCHES INNER BOTTOM PHATING FINGINE SPACE - 58

158 IN ENG. SPACE - 62 IN BOILER SPACE - 62

162 IN BOILER SPACE - 62

162 IN BOILER SPACE - 62

163 IN BOILER SPACE - 62

164 IN BOILER SPACE - 62

165 IN BOILER SPACE - 6

A STRAKE (IN & OUT.)

TO 3 2 x 3 2 x 48 AT ENDS.

ADDITIONAL INTERCOSTALS UNDER TURBINES & FORWARD OF % 4.

ADDITIONAL INTERCOSTALS (HALF DEPTH) CARRIED AS FAR FORWARD AS PRACTICABLE.

'46 To .'40 '54 IN B.S.

"78 IN WAY OF 27" SPACING.

B STRAKE (IN & OUT.)

3 STRAKES MIDSHIP THICKNESS MAINTAINED FORWARD TO COLLISION BULKHEAD.

4 DIA.

70" x . 78 TO . 54 AFT END 70" x . 78 TO . 54 AT AFT END

+ .04 FOR 32 SPACING = 82 + .04 FOR 32 SPACING = .82

HOLDS 50 TO 42 TO BE INCREASED "08 UNDER CARGO HATCHES IN LIEU OF CEILING.

MIDSHIP SECTION. SHIPYARD DEPT MCKERS LIMITED - DIMENSIONS. -SCALE ZINCH = ONE FOOT -519-0 LENGTH B.P. BREADTH MLD. LLOYDS CLASS 100 Al. SHELTER DECK. SPECIAL SURVEY. DEPTH MLD. TO "C"(SHELTER DK) 43'- 0 LLOYDS NUMERALS & PROPORTIONS. BREADTH MOULDED 65.0 43.0 DEPTH MOULDED TO SHELTER DECK 100.0 15T NUMERAL 65.0+ (43-8) = - MACHINERY CASINGS ---51900 2 NO NUMERAL 100 x 519.0 = LO TO "B" DECK 519.0 - 51.25 = 10.12 12.07 1/D TO "C" DECK 519.0- 43.00 = 8"x 3"x 3"x "40 CHANNEL. d to "E" DECK 43'-0" - (16'-3"+4-2") = d to "F" DECK 43'-0" - (24'-3" +4'-2") = WOOD DECK 5"x 2'2" P. P. STRINGER SQ x 30 DECK PLATING :26 WITH TEAK MARGINS. 4" CAMBER. "30 CURTAIN PLATE. 3/2 x 3/2 x 30 Lugs. 3"x3"x.30 KHEES 15 x 40 4 - 34" RIVS. BEAMS 5/2 x 3 x 36 B. A. WHERE 20-0" EQUIPMENT AS PER RULES . 52 x 3 x 36 ANGLES ELSEWHERE DAYITS WHERE NECESSAR (SEE DECK PLANS) 5 x 5 x 5 TEE BARS 4/2 x 3 x 32 x 32 ANGLE STIFFRS. TEAK RAIL 8-0 & WEBS AS SHOWN ON DECK PLANS 4'x 32'x .34 PLATING .30 PASSENGER ACCOMMODATION. :26 BULWARK. DECK PLATING 130 IN WAY OF SIDE PLATING STRINGER ANGLE 6"x3"x :38 6 x 6 x . 40 LUGS .28 CLEAR OF SIDE PLATING AFT. 3/2" x 3/2" x 146 4 - 3/4 RIVS IN WOOD DECK 5" x 2'2" P.P. 12" WATERWAY 1/2 MAGNESITE INSIDE HOUSES. EACH FLANGE. WITH TEAK MARGINS STRINGER 44 × . 40 A DECK. 4 CAMBER BRACKETS WHERE PRACTICABLE. 3"x 2"|2" x "40 BEAMS 72 x 3 x 42 B.A. ON EVERY FRAME 9 TUMBLE HOME KNEES 25" x " 46 KNEES IN WAY OF BEAMS AT AFTER END CLEAR OF SIDE PLATING 5/2 B. A. BEAMS 6-18" RIVS. AS SHEWN. "R" STRAKE (OUT) .40 36 FLANGED PLATE 15"x 140, 4-3/4" RIVS. 52 x 3 x 36 BA. (SEE DECK PLAN) 0 0 0 0 14" DIA OH "B" DECK. LINE OF MACHINERY CASINGS. SIDELIGHTS. DETAIL OF "A" DECK SR 2/2"LAP DOUBLE AT ENDS OF "A" DECK. THESE GIRDERS ON 8-0" BEAM KNEES IN WAY OF A, B, & C DECKS IN INTERMEDIATE FRAMES PASSENGER ACCOMMODATION ALTERNATE FRAMES 7 . 3 CARRIED UP TO "A" DECK. LIEU OF CENTRE GIRDER INTERMEDIATE FRAMES CUT DOWN TO 4 . 3/2 ABOVE IN WAY OF CASINGS. "Q" STRAKE (IN) .40 "B" DECK. SPRINGER ANGLE CLEAR OF ERECTION SES TO FOR YEL TO 4 × 4 × 46 AT FORE END SEE DECK PLANS DECK PLATING 1.48 TO . 36 IN WAY OF BRIDGE SIDE PLATING + . 02 FOR 32 SPACING = . 50 FOR POSITION AFT END AS PER DECK PLAN. 130 CLEAR OF BRIDGE SIDE PLATING AFT. SEE PILLARING & GIRDER PLAN SR 3" LAP. DOUBLE AT ENDS OF "A" DECK. FOR SPAN. AFT END AS PER DECK PLAN INCREASED AT ENDS OF A DECK WOOD DECK WHERE EXPOSED 1/2 MAGNESITE. 4 x 4 x . 52 IN ERECTION . DECK. 4" CAMBER. 5"x 3" P.P. WITH TEAK MARGINS. 3 x 3 x · 52 IN ERECTION BEAMS 8 x 3 x 3 x { 375 WEB CHANNELS. ON EVERY FRAME (BREADTH NOT EXCEEDING 64") P'STRAKE (OUT) 58" x " 90 TO "50 FORWARD SUPPORTED. 8" x 3" x 3" x -50F CHANNEL 8x3x3x 30 F CHANNEL DOUBLED AT ENDS OF KNEES 28" x 150 KNEES IN WAY 36 FLANGED PLATE. "A" DECK. OF 6" B. A. BEAMS 6 - 78" RIVS. AS SHEWN. 15 x 142, 4-34" RIVS. BEAMS AT AFTER END CLEAR OF BRIDGE SIDE PLATING 6 x 3 x 40 B. A. (SEE DECK PLAN) 12"& 14" DIA . SIDELIGHTS . WEB FRAMES IN TO BE ARRANGED IN SAME 8'-3" 6" LAP. SEE DECK PLANS WHERE PRACTICABLE PASSENGER ACCOMMODATION SO" x "52 UNDER BRIDGE TO "O" STRAKE (IN) STRINGER 40 4.46 AT ENDS. THICKNESS CLEAR OF BRIDGE (AFT) 51" x ".76 TO "50 174 AT 12 L. TO 146, INCREASED + " 02 FOR 32" SPACING = "78 DECK PLATING -42 TO 36 UNDER BRIDGE + 02 FOR 32 SPACING = 44 .50. Seedeck plan AT BRIDGE END AS PER DECK PLAN. CLEAR OF BRIDGE (AFT) "52 AT 1/2 L. TO "36 + . OZ FOR 32" SPACING = "54 STRINGER ANGLE CLEAR OF BRIDGE C (SHELTER) DECK. C DECK PLATING INCREASED TO OVER GALLEY RANGES. (AFT) 6" x 6"x 178 AT 12 L TO 4" 4" 46 WOOD DECK WHERE EXPOSED IN WAY OF 4 4 4 158 TO 46 12 MAGNES TE SUBMITTED. 5" x 3" P.P. WITH TEAK MARGINS. BRIDGE 3 x 3 x . 52 To . 46 A CAMBER. BEAMS 8 x 3 x 3 x (.44 WEB CHANNELS ON EVERY FRAME. 4' x 4" x '. 52 "N" STRAKE (OUT). 8 x 3 x 3 x { .375 W CHANNEL . 136 FLANGED PLATE IN WAY OF BRIDGE 66" x 174 TO 150 8"x 3" x 3" x -50 F CHANNEL | KNEES 29" x "50 "36 FLANGED PLATE. + 104 FOR 32" SPACING = 178 SHAPED IN ACCOMMODATION STRAIGHT ELSEWHERE TYPE OF GIRDER TO 7- 7/8" RIVETS AS SHEWN. CLEAR OF BRIDGE (AFT) 1:08 AT /2 L. BE FITTED IN TO SHEERSTRAKE DOUBLED FULL WINTH HORIZONTAL SHELF PLATE IN LIEU 2 8 3 CLASS SALOONS 8-3" OF BEAM KHEES IN 249 & 389 -36 FLANGED PLATE! 6"LAP. AT END OF BRIDGE. CLASS SALOONS, 29" x "50 5"x 3" x "38 ANGLES ! PASSENGER ACCOMMODATION . 12, 14 & 16 DIA. SIDELIGHTS. M STRAKE (IN) IN WAY OF BRIDGE 66" X .74 TO .50 STRINGER IN WAY OF BRIDGE \$3 + 46 + "04 FOR 32" SPACING = "78 TO 40" x "46 AT ENDS. DECK PLATING 1.36 TO .32 IN WAY! OF BRIDGE THICKHESS CLEAR OF BRIDGE CLEAR OF BRIDGE (AFT) "44 AT 2 L. TO "32 + "02 FOR 32" SPACING + "46. D DECK. (AFT) "52 AT /2 L. TO : 46 CLEAR OF BRIDGE (AFT) "94 AT 1/2 L 4" x 4" x . 52 To "46 TO 150 AT END 12 MAGNESITE A CAMBER 3 x 3 x . 52 To . 46 BEAMS 8"x 3"x { 44 YEB } CHANNELS ON EVERY FRAME 8 x 3 x 3 x 4 375 W CHANNEL .36 FLANGED PLATE. KHEES 29' x "50 8"x3"x3" x { .50 F. CHANNEL. .36 FLANGED PLATE SHAPED IN ACCOMMODATION OHLY, STRAIGHT ELSEWHERE L STRAKE (OUT) 7-78 RIVETS TO BEAM. 73" x .74 To .50 9-18 RIVETS TO FRAME AS 8-0 SHEWH (TO SUIT SCARPHING OF + 04 FOR PASSENGER ACCOMMODATION (PORTABLE) & CARGO. UPPER FRAME TO MAIN FRAME) SPACING = .78 10" DIA SIDELIGHTS . 4"x4"x 52 To:46 STRINGER 8 1 46 TO 40 1.30 IN WAY OF BRIDGE. DECK PLATING. CLEAR OF BRIDGE (AFT) "36 AT 1/2 L. TO "32. X .46 AFT. 40 X .46 FORWARD DECK I WAY OF BOILER CASING TO ! A" CAMBER. 3 x 3 x 52 To 46 Y"K" STRAKE (IN) BEAMS 9"x 3/2"x (375 WEB) CHANNELS ON EVERY FRAME 73" x 1.74 TO 150 + "04 FOR 32" SPACING "78 LINE OF LARGE KNEES 31'x 50 DECK GIRDERS IN CONJUNCTION WITH WIDE SPACED BRACKETS IN WAY OF BOILER CASING PILLARS IN HOLD AS PER SEPARATE PLAN SEE DECK PLAN FOR TYPE OF GIRDER TO BE POSITION. FITTED UNDER E. DECK IN WAY OF PASSENGER ACCOMMODATION 8-0" ш 8" x 3" x 3" x (. 50 F. CHANNEL) "36 FLANGED PLATE DETAIL OF E DECK CARGO BEAM KHEE WHERE J STRAKE (OUT) NO REVERSE FRAME IS FITTED J.E. IN 73 x 74 TO 50 WAY OF 'F' DECK LINE OF PILLARS. + "04 FOR 32" SPACING = .78 4"x 4"x .52 To .46 DECK. STRINGER 52"x 40 DECK PLATING 30 BARE STEEL DECK TO 40" x 140 3' x 3' x 52" TO "46 A CAMBER. BEAMS 9" x 3/2" x 3/2" x { 375 WEB } CHANNELS ON EVERY FRAME DECK GIRDERS IN CONJUNCTION WITH WIDE SPACED STEM BAR 112 x 38 KNEES 31 x 50 PINNARS IN HOLD AS PER SEPARATE PLAN. STEEL CASTING, DETAILS TREBLE RIVETED LANDINGS STERN POST. TO BE SUBMITTED. SHEWH BELOW RUDDER. DETAILS TO BE SUBMITTED. AS PER. SEC. 25 PARA. 6. "H" STRAKE (IN) FRAMES :- SPACED 24 APART FROM O TO 11, & 193 TO STEM. PILLARS. 3 ROWS. 4 SPACES APART IN TWEEN DECKS, 73" x 174 TO 150 32 FROM 11 to 158, & 27" FROM 158 to 193. + . 04 FOR 32" SPACING "78 WIDE SPACED IN HOLDS PLAN WILL BE SUBMITTED. * MAIN FRAMES 10 x 32 x -44 B.A. IN WAY OF 1, 243 HOLDS MINIMUM DEPTH REVERSE FRAMES 4 × 32 × 44 ANGLES WHERE 32 SPACING REVERSE FRAMES TO F DECK OF GIRDER. * 10 B.A. FRAMES ALREADY IN STOCK FROM OUR Nº 493 * MAIN FRAMES 10 x 32 x . 44 B.A. 32 SPACING > & BOILER SPACES, & OIL BUNKERS. > TO BE USED. 6 LAP. J REVERSE FRAMES TO E DECK. * MAIN FRAMES 10" x 32 x .44 B.A. IN WAY OF 5, 6 & 7 HOLDS. REVERSE FRAMES 4 . 3/2 x . 44 ANGLES REVERSE FRAMES TO E DECK. SKETCH SHEWING * FRAMES IN PEAKS 10" x 32 x 44 B.A. 24 SPACING. (SEE SEPARATE SUBMISSION.) G STRAKE (OUT) BARS TO DRAINAGE ARRANGEMENTS. 7 x 3 x x 50 ANGLES WHERE 32 SPACING. FRAMES ABOVE D' DECK T' & 3% x 48 ANGLES ELSEWHERE. 73" x . 74 To . 50 BE CUT 3 AT CORNERS OF + "04 FOR 32" SPACING . 78 TANK INTERCOSTALS. FRAMES ABOYE D DECK SCARPHED 2-5 ON TO 10 FRAMES BELOW D DECK. SCANTLINGS OF BUNKHEADS TO INTERNATIONAL REQUIREMENTS (SEE ALSO PROFILE.) RIVETING THROUGHOUT AS PER RULES & AS APPROVED ON THIS PLAN. BRACKETS . 50 TO :42, .54 IN B.S. REDUCED THICKNESS BOTTOM FORWARD STRENGTHENED AS PER RULE. (SEPARATE SUBMISSION.)

CONTINUOUS PLATE - 50 TO - 42

6 HAP

MARGIN PLATE 42 x 56

158 IN BOILER SPACE

D' STRAKE (IN.)

70' x : 78 TO :54

+ "04 FOR 32" SPACING = . 87

C STRAKE (IN & OUT.)

+ . 04 FOR 32 SPACING = . 82

70 x 78 TO 54 AT AFT END

58 IN ENG. SPACE. 62 IN BOILER SPACE. BAT

62 IN BOLLER

E STRAKE (OUT.)

+ '04 FOR 32" SPACING.

70 x 78 TO 54



W294-0123

Bgd R.d. d.

9-5-19

15-% RIVETS IN EACH FLANGE TO MARGIN.

(2/2 % BEAM I

F STRAKE (IN)

BILGE KEEL FOR 220 X

62"x 6"x"50 TEE BAR WITH

12" x 160 BULB PLATE.

Swan & Hunten.

no 1127.

S/S. awrania

midship Section
as built

SI.P. AURANIA NEWCASTLE ON TXNS. Report No. 78286.

ho 2 Bay 1

Lloyd's Register
2904 Glazen

T. S. S. NO.1127 AURANIA.

MIDSHIP SECTION.

SCALE & =1 FOOT.

LLOYDS CLASS 100 A1. SHELTER DECK. SPECIAL SURVEY.

DECK PLATING 26

32 x 32 x 30 LUGS.

KNEE 12" x 30

3 - 3 RIVS.

42 × 3 × 32 × 32 ANGLE STIFFES

6 x 6 x 40 LUGS

4-4 RIVS. IN

BRACKETS WHERE PRACTICABLE.

EACH FLANGE

LINE OF PILLARS

WOOD DECK WHERE EXPOSED

5"x3"P.P. WITH TEAK MARGINS

SUPPORTED.

TYPE OF GIRDER TO

2 ND & 3 RD CLASS SALOONS.

TYPE OF GIRDER TO BE FITTED UNDER E' DECK IN

BARE STEEL DECK.

STEM BAR 112 x 38

WIDE SPACED IN HOLDS

BARS TO

BE CUT 3"

46 TO 40, 54 IN 8 S 32 x 32 x 52 TO 40

"D" STRAKE (IN)

70 x 78 TO 54

58 IN BOILER SPACE

13-8 RIVETS.

CONTINUOUS GIRDER

PLAN WILL BE SUBMITTED

8" x 3" x 3" x 2"50 F CHANNEL

LINE OF PILLARS.

CONTRACTOR OF AN AND THE PROPERTY FRAME

MINIMUM DEPTH

OF GIRDER 15"

WAY OF PASSENGER ACCOMMODATION

BE FITTED IN

ON "B" DECK.

ON EVERY FRAME

BEAMS 52 x 3 x 36 B.A. WHERE 20 - 0 SPAN

& WEBS AS SHOWN ON

DECK PLANS

ACCOMMODATION.

PASSENGER ACCOMMODATION

28 CLEAR OF SIDE PLATING AFT.

BEAMS AT AFTER END CLEAR OF SIDE PLATING

DECK PLATING 48 TO 36 IN WAY OF BRIDGE SIDE PLATING + 02 FOR 32 SPACING = 30

12 MAGNESITE

CHANNELS.

BEAMS AT AFTER END CLEAR OF BRIDGE SIDE PLATING

42 TO 36 UNDER BRIDGE + 02 FOR 32 SPACING = 44

12 MAGNESITE SUBMITTED.

CLEAR OF BRIDGE (AFT) 52 AT 2L. TO 36 + 02 FOR 32" SPACING = 54

6 × 3 × 40 B. A. (SEE DECK PLAN.)

36 FLANGED PLATE

PASSENGER ACCOMMODATION.

"C" DECK PLATING INCREASED TO OVER GALLEY RANGES

36 FLANGED PLATE

36 FLANGED PLATE

5"x 3" x 38 ANGLES.

PASSENGER ACCOMMODATION

12 MAGNESITE

36 FLANGED PLATE

8" × 3" × 3" × { 375 W. CHANNEL.

36 TO 32 IN WAY OF BRIDGE

30 IN WAY OF BRIDGE

MAGNESITE

36 FLANGED PLATE

BEAMS 9 x 32 x 32 x 50 FLANGE CHANNELS ON EVERY FRAME

IN WAY OF 1,2,83 HOLDS MINIMUM DEPTH

REVERSE FRAMES TO "F" DECK OF I GIRDER 10"

DEPTH OF GIRDER 10"

TO BE INCREASED OB UNDER

CARGO HATCHES IN LIEU OF CEILING.

"C" STRAKE (IN & OUT.)

CARGO.

DECK PLATING 30

FOR 32" SPACING = "46

CLEAR OF BRIDGE (AFT) 44 AT 2 L TO 32 + 02

CLEAR OF BRIDGE (AFT) 36 AT 2 L TO 32

ON EVERY FRAME

8 × 3 × 3 × 50F CHANNEL

BEAMS 8 × 3 × 3 × {44 WEB CHANNELS

BEAMS 8 x 8 x 3 x 4 TO FLANGE CHANNELS

PASSENGER ACCOMMODATION (PORTABLE)

BEAMS 9" x 32" x 8" x 8" 50 FLANGE CHANNELS

DECK PLATING

DECK GIRDERS IN CONJUNCTION WITH WIDE SPACED

DECK GIRDERS IN CONJUNCTION WITH WIDE SPACED

SPACED 24 APART FROM O TO II, & 192 TO STEM.

32 FROM 11 TO 158, & 27 FROM 158 TO 192.

IN WAY OF Nº 4 HOLD. ENGINE

FLOORS EVERY FRAME

& BOILER SPACES, & OIL BUNKERS

REVERSE FRAMES TO "E" DECK.

PILLARS IN HOLD AS PER SEPARATE PLAN

4 x 32 x 44 ANGLES WHERE 32 SPACING

FRAMES IN PEAKS 10" x 32 x .44 B.A. 24" SPACING (SEE SEPARATE SUBMISSION)

FRAMES ABOVE "D" DECK SCARPHED 2'-5" ON TO 10" FRAMES BELOW "D" DECK. SCANTLINGS OF BULKHEADS TO INTERNATIONAL REQUIREMENTS (SEE ALSO PROFILE)

BOTTOM FORWARD STRENGTHENED AS PER RULE (SEPARATE SUBMISSION)

ADDITIONAL INTERCOSTALS (HALF DEPTH) CARRIED AS FAR FORWARD AS PRACTICABLE

RIVETING THROUGHOUT AS PER RULES & AS APPROVED ON THIS PLAN

32 SPACING

7" x 32 x 50 ANGLES WHERE 32" SPACING

INNER BOTTOM PLATING | ENGINE SPACE 58

4 DIA.

46 10 40

4" DIA.

32 x 32 x 52 TO 48 0 0 22 x 1 DRAIN HOLES

54 IN B.S.

FRAMES 32 x 32 x 52 TO 48

4 × 32 × 42 ELSEWHERE.

MAIN FRAMES 10 x 32 x 44 B. A. IN WAY OF 5, 6, & 7 HOLDS

REVERSE FRAMES IN ENG. & BOILER SPACES AS PER RULE.

ADDITIONAL INTERCOSTALS UNDER TURBINES & FORWARD OF % L.

62 IN BOILER SPACE

4" DIA

REVERSE FRAMES 4 × 32 × 44 ANGLES | REVERSE FRAMES TO "E" DECK.

PILLARS IN HOLD AS PER SEPARATE PLAN.

8"x3 x3"x "50 F. CHANNEL

30 CLEAR OF BRIDGE SIDE PLATING AFT

30 IN WAY OF SIDE PLATING

12 MAGNESITE INSIDE HOUSES.

BEAMS TEX 3" x 42 B A ON EVERY FRAME

52 × 3 × 36 B.A. (SEE DECK PLAN.)

LINE OF MACHINERY CASINGS

BEAMS 8" x 3" x 3" x

DECK PLATING

PASSENGER

52 × 3" × 36 ANGLES ELSEWHERE

WOOD DECK 4 2 0.F

WITH TEAK MARGINS

3" x 3" x 30

PLATING 30

6 x3 x 38

5" x 3" x 31

36 FLANGED PLATE

ALTERNATE, FRAMES 7 x 32 CARRIED UP TO "A" DECK

INTERMEDIATE FRAMES CUT DOWN TO 4 × 32 ABOVE

(BREADTH NO EXCEEDING 64")

WOOD DECK WHERE EXPOSED

5" x 3" P. P. WITH TEAK MARGINS

ON EVERY FRAME

SPACED TO SUIT BOAT

DAVITS WHERE NECESSARY

WOOD DECK SX S P.P.

KNEES IN WAY OF

15 x 40, 4-3 RIVS

KNEES IN WAY

OF 6" B. A. BEAMS

15" x 42. 4-4 RIVS

WEB FRAMES IN

see deck plan.

DETAIL OF A" DECK

BEAM KNEES IN WAY OF

INTERMEDIATE FRAMES

STRINGER ANGLE CLEAR OF ERECTION

CR ONE STRINGER TO X TO TO 40 X 46 AT FORE END

AFT END AS PERDECK PLAN INCREASED AT ENDS OF A DECK

5 × 5" × 70 FOR 2 L TO 4" × 4" × 46 AT FOREEND

52 B.A. BEAMS

WTH TEAK MARGINS.

(SEE DECK PLANS)

8" x 3" x 3" x 40 CHANNEL.

KNEES 15 x 40 /

TEAK RAIL

4" x 32 x 34

STRINGER ANGLE

STRINGER 44 × 40

3 × 2 2 × 40

14" DIA.

AFT END AS PER DECK PLAN

4 ×4 × 52 IN ERECTION

KNEES 28 x .50

6- 8 RIVS. AS SHEWN.

12 & 14 DIA. SIDELIGHTS

TO BE ARRANGED IN SAME TRANSVERSE VERTICAL PLANE

WHERE PRACTICABLE

THICKNESS CLEAR OF BRIDGE (AFT)

74 AT 2 L. TO .46, INCREASED

AT BRIDGE END AS PER DECK PLAN

STRINGER ANGLE CLEAR OF BRIDGE

(AFT) 6" x 6" x .78 AT 2 L . TO 4" x 4" x .46

IN WAY OF 4 x 4 x 52 TO 46 BRIDGE 3"x 3" x 52 TO 45

4" x 4" x .52

SHAPED IN ACCOMMODATION STRAIGHT ELSEWHERE

12, 14 & 16 DIA. SIDELIGHTS.

STRINGER IN WAY OF BRIDGE 52 x 46

KNEES 29 x 50

KNEES 31 × 50

AS SHOWN

7-8 RIVETS

KNEE 31 x .50

7- 8 RIVETS AS

SHEWN BELOW.

SKETCH SHEWING

AT CORNERS OF

58 IN ENG. SPACE 62 IN BOILER SPACE

4"DIA. AIR HOLE 2" DEEP

24 × 14

CONTINUOUS PLATE . 50 TO -42

MARGIN PLATE 42" x 56

54 IN B.S.

60 IN BOILER SPACE.

58 IN B S.

+ 04 FOR 32 SPACING - 82

TANK INTERCOSTALS.

DRAINAGE ARRANGEMENTS

FLANGED

"E" STRAKE (OUT.)

+ O4 FOR 32 SPACING

70 x .78 TO .54

= 82

BRACKETS 50 TO 42, 54 IN B.S.

62 IN BOILER

LINE OF LARGE

BRACKETS IN WAY

OF BOILER CASING

SEE DECK PLAN FOR

DETAIL OF E DECK

BEAM KNEE WHERE

NO REVERSE FRAME IS FITTED I.E. IN

WAY OF 'F' DECK.

STEEL CASTING, DETAILS

TO BE SUBMITTED.

RUDDER. DETAILS TO BE SUBMITTED.

4 SPACES APART IN TWEEN DECKS

TO 40 × 46 AT ENDS.

THICKNESS CLEAR OF BRIDGE

3 ×3 × 52 TO 46

(AFT) 52 AT 2 L TO 46

SHAPED IN ACCOMMODATION ONLY, STRAIGHT ELSEWHERE.

9-% RIVETS TO FRAME AS SHEWN (TO SUIT SCARPHING OF

UPPER FRAME TO MAIN FRAME

10" DIA SIDELIGHTS.

4 ×4 × ·52 TO ·46

4 x 4 x . 52 TO . 46

0

6 LAP

+ 04 FOR 32 SPACING = 78

"G" STRAKE (OUT)

73 x 74 TO 50

+ 04 FOR 32 SPACING = 78

(22 % BEAM .W.

STRINGER 52 × 40

STRINGER 52 x 46 TO 40

IN WAY OF BOILER CASING TO BE

7-8 RIVETS TO BEAM.

7- 8 RIVETS AS SHEWN

KNEES 29" x .50

HORIZONTAL SHELF PLATE IN LIEU

OF BEAM KNEES IN 2ND & 3RD

CLASS SALOONS 29" x 50

SO x 52 UNDER BRIDGE TO

40 × 46 AT ENDS

3 x 3 x .52 IN ERECTION

SIDELIGHTS.

32 × 32 × 46

12" WATERWAY

6- 8 RIVS. AS SHEWN

26 BULWARK.

9 TUMBLE HOME.

"A" DECK.

4 - 4 RIVS.

5 x 5 x 5 TEE BARS.

STRINGER 30 x 30

MACHINERY CASINGS.

8-0

8-0

8'-3

8-3

8-0

8-0

REDUCED THICKNESS

32 x 32 x .58 TO .54

58 IN BOILER SPACE

NO BOSOM PIECES

TO BE FITTED TO

BUTTS OF C.K. TOP

& BOTTOM ANGLES.

5 x 5 x 64 FOR 2 L

FLAT KEEL

255 X 1-26 FOR 5 L

TO 96 AT ENDS

TO 58 AT ENDS.

ON ACCOUNT OF THICKER KEEL &

CENTRE KEELSON

F DECK.

FRAMES:

CENTRE STRAKE S+ 08 UNDER CARGO HATCHES

6 x 6 x 58 FOR 2 L

TO 32 x 32 x 48 AT ENDS

50 x 50 TO 42 IN LIEU OF CEILING

MAIN FRAMES 10 x 32 x 44 B.A.

MAIN FRAMES 10" x 32 x 44 B.A.

REVERSE FRAMES II x 4 x 56 ANGLES

62 IN BOILER SPACE

36 x 18

A STRAKE (IN & OUT)

A. DECK.

4 CAMBER

B DECK. 4 CAMBER

C (SHELTER) DECK.

4 CAMBER

D DECK.

4 CAMBER

DECK.

4 CAMBER

8" x 3" x 3" x 3" x 50 F. CHANNEL

36 FLANGED PLATE

8 × 3 × 3× 50 F. CHANNEL

8 × 3 × 3 × 6 375 W. CHANNEL

36 FLANGED PLATE

36 FLANGED PLATE

THESE GIRDERS ON

A. B. & C DECKS IN

IN WAY OF CASINGS

SEE DECK PLANS

FOR POSITION.

FOR SPAN

LIEU OF CENTRE GIRDER

SEE PILLARING & GIRDER PLAN

DIMENSIONS.

LENGTH B. P. 519 - 0 65 - 0 BREADTH MLD. DEPTH MLD. TO "C" (SHELTER DK) 43 - 0

LLOYDS NUMERALS & PROPORTIONS.

BREADTH MOULDED	65-0
DEPTH MOULDED TO SHELTER DECK	43 . 0
ST NUMERAL 65.0 + (43-8) =	100.0
2 ND NUMERAL 100 x 519.0 =	51900
D TO "B" DECK 519 .0 - 51.25 =	10 -12
10 TO "e" DECK 519 . 0 ÷ 43.00 =	12 . 07
d to "E" DEEK 43'-0" - (16'-3" + 4'-2") =	22'-7"
d to "F" DECK 43'-0" - (24'-3' + 4'-2") =	14' - 7"

EQUIPMENT AS PER RULES.

1 - 120 - 10" MANILLA ROPE

10 " " 120 " EACH 8" " " "R" STRAKE (OUT) .40 S.R 22 LAP DOUBLE RIV. AT ENDS OF A DECK. "Q" STRAKE (IN) 40 S.R. 3 LAP DOUBLE RIV. AT ENDS OF A DECK. "P" STRAKE (OUT) 58" x 90 TO 50 FORWARD DOUBLED AT ENDS OF "O" STRAKE (IN) 51" x .76 TO .50 + .02 FOR 32 SPACING = .78 "N" STRAKE (OUT) IN WAY OF BRIDGE 66 x 74 TO 50 + .04 FOR 32 SPACING = .78 CLEAR OF BRIDGE (AFT) 1.08 AT 2 L. TO 50 AT END. SHEERSTRAKE DOUBLED FULL WIDTH AT END OF BRIDGE "M" STRAKE (IN) IN WAY OF BRIDGE 66 x 74 TO 50 + 04 FOR 32 SPACING = 78 CLEAR OF BRIDGE (AFT) 94 AT &L TO 50 AT END "L" STRAKE (OUT) 73 x 74 TO 50 + 04 FOR 32 SPACING = .78 K STRAKE (IN) 73 × 74 TO .50 + 04 FOR 32 SPACING = 78 J STRAKE (OUT) 73 × 74 TO ·50 + 04 FOR 32 SPACING = 78 AS PER SEC. 25 PARA. 6. "H" STRAKE (IN) 73 × 74 TO 50

TREBLE RIVETED LANDINGS

MAIN FRAMES & REV. FRAMES

JOGGLED EXCEPT IN REV. FRAMES.

15 - % RIVETS IN EACH FLANGE TO MARGIN. TO FRAME

per Tovand me Farrer RETURNED per Trans mer authen

70 x 78 TO 54 AT AFT END 70 x .78 TO .54 AT AFT END 70 x 78 TO 54 AFT END + .04 FOR 32 SPACING = .82 + '04 FOR 32" SPACING = '82 + 04 FOR 32 SPACING = 82 3 STRAKES MIDSHIP THICKNESS MAINTAINED FORWARD TO COLLISION BULKHEAD. 82 IN WAY OF 32 SPACING 78 IN WAY OF 27 SPACING

"B" STRAKE (IN & OUT)

X TEMPLATE STRAKES.

12 × 60 BULB PLATE

F STRAKE (IN)

78 TO 54

4" x 4" x 56

BILGE KEEL FOR 220 &

62 × 6 × 50 TEE BAR WITH

47.

Mallo end 8-lipmy lo

Nº 829

S. D. Aurania

Souble Endex Boclers

copy of plans passed for The

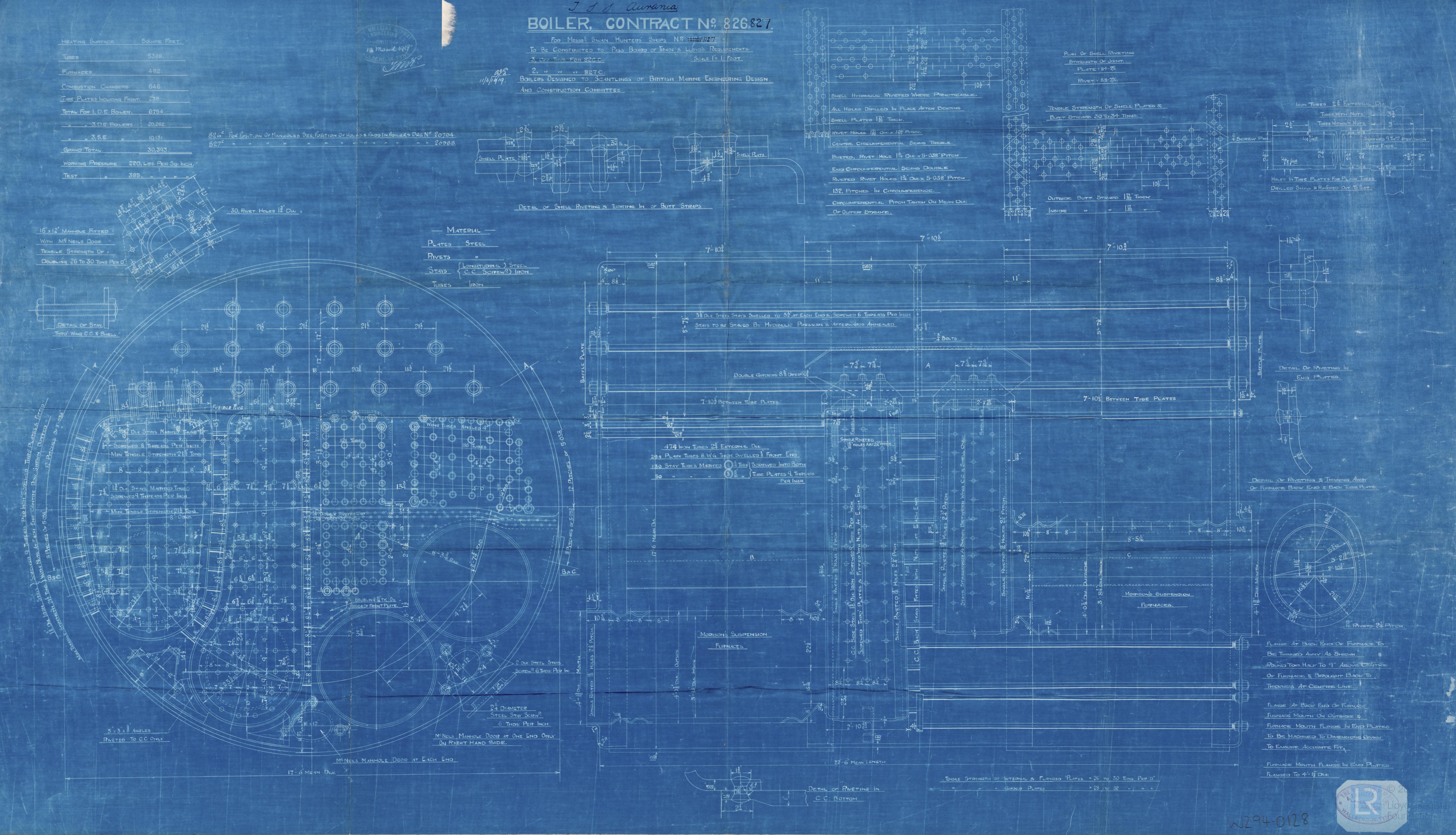
O'S. Laconia"

Reported 24/4/22

S.S. AURA NIA NEWCASTLE ON TYNE.

Report No. M&2\$6.

no 32 Aay2



SIEB Mallound Slepmay lo Anigle Ended Boilers Copy of plans paned for the S. D. Laconia Reported 24/4/22 S.S. AURANIA NEWCASTLE ON TYNE. Report No. M8286. hv 33 By 2 Lloyd's Registe 29 40 Oblibn

BOILER. CONTRACT Nº 825827. PLAN OF SHELL RIVETING. FOR MESSRS. SWAN & HUNTER SHIPS Nº 125 127. STRENGTH OF JOINT PLATE = 84.2%.
RIVET = 88.7%. HEATING SURFACE SQUARE FEET TO BE CONSTRUCTED TO PASS BOARD OF TRADE & LLOYD'S REQUIREMENTS. TUBES . 2694 3,0FF Thus. For \$20.0. TENSILE STRENGTH OF SHELL PLATES & BUTT STRAPS 30 TO 34 TONS. SCALE I'- ONE FOOT. SHELL HYDRAULIC RIVETED WHERE PRACTICABLE. FURNACE 241. 2, ,, ,, ,, 827.C. ALL HOLES DRILLED IN PLACE AFTER BENDING . COMBUSTION CHAMBERS 323 BOILERS DESIGNED TO SCANTLINGS OF BRITISH MARINE SHELL PLATES 132 THICK. TUBE PLATES INCLUDING FRONT. 119 RIVET HOLES 121 DIA × 102 PITCH. ENGINEERING DESIGN & CONSTRUCTION COMMITTEE. 1.5.E. BOILER. END GIRCUMFERENTIAL SEAMS DOUBLE RIVETED. 3377 PIVET HOLES 14 DIA x 5.038 PITCH . CHECKED BY 19/6 TOTAL 3.S.E. BOILER. 10131. -- MATERIALS .--132 PITCHES IN GIRCUMFERENCE PLATES . STEEL . CIRCUMFERENTIAL PITCH TAKEN ON MEAN OUTSIDE BUTT STRAPS 132 THICK. 826 FOR POSITION OF MANHOLES SEE DRG Nº 20704. DIA: OF SHELL . NSIDE 97 " 137 " 827° " " " " " " 20988. RIVETS STEEL LONGITUDINAL) STEEL . STAYS. 30, RIVET HOLES 14 DIA: C.G. SCREWS) RON . TUBES . IRON . 16"x 12" MANHOLE FITTED WITH MENELS DOOR. WORKING PRESSURE 220 LBS PER SQ: INCH. TENSILE STRENGTH OF TEST 7 385 " " " " 10-10" DETAIL OF SHELL RIVETING & TUCKING IN DOUBLING 26 TO 30 TONS /0". OF BUTT STRAPS 4' 85 88,4, 64 DETAIL OF STAY 38 DIA STEEL STAYS SWELLED TO 32 AT EACH END & SCREWED 6 THREADS PER INCH. THEO' WING C.C. & SHELL STAYS TO BE STAVED UP BY HYDRAULIC PRESSURE AFTERWARDS ANNEALED. 78 78 DOUBLE GIRDERS 838 DEEP x 3 7-10 BETWEEN TUBE PLATES. 474 IRON TUBES 24 EXTERNAL DIA 58 DOUBLE RIVETED LAP T LE HOLES 32 PITCH 294 PLAIN TUBES 8.W.G. THICK SWELLED & FRONT END. 130 STAY TUBES MARKED THK: SCREWED INTO BOTH 50 " " " Sig " TUBE PLATES 9 THREADS. 2", DIA STAYS MARKED THUS SCHEWED 8 THREADS PER INCH 74" MIN TENSILE STRENGTH OF STAYS 212 TONS, 63 13 DIA STAYS MARKED THUS SCREWED 9 THUS PER IN: · 6 - 6 - 6 - 6 - 6 MORISONS SUSPENSION FURNAGES. 2 DIA: STEEL STAYS CREWS 6 THOS PER IN 84 84 84 _ 8-5福_ PER INCH. MENELS MANHOLE DOOR AT FRONT END ONLY 17-6" INTERNAL DIA: 11-6 MEAN LENGTH. TENSILE STRENGTH OF INTERNAL & FLANGED PLATES = 26 TO 30 TONS PER I " " GIRDER PLATES - 28 To 32 " " " FOR DETAILS OF RIVETING & THINNING AWAY OF FURNACE BACK & BACK TUBE PLATE & DET